

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2162	thermoplastic near20 mold\$4 and polymer and catalyst and fiber near4 reinforc\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 10:38
L2	514	thermoplastic near20 mold\$4 near20 polymer and catalyst and fiber near4 reinforc\$6 and (amide or ester or urethane)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 10:38
L3	63	thermoplastic near20 mold\$4 near20 polymer and catalyst near100 (ammonium or phosphane or phosphonium or titanate or titanyl or zirconate or sulfonium) and fiber near4 reinforc\$6 and (amide or ester or urethane)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 10:38
L4	63	thermoplastic near20 mold\$4 near20 polymer and catalyst near100 (ammonium or phosphane or phosphonium or titanate or titanyl or zirconate or sulfonium) and fiber near4 reinforc\$6 and (amide or ester or urethane)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 10:38
L5	58	thermoplastic near20 mold\$4 near20 polymer and catalyst near100 (ammonium or phosphane or phosphonium or titanate or titanyl or zirconate or sulfonium) and fiber near4 reinforc\$6 and (amide or ester or urethane) and (bond\$4 or link\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 10:39
L6	58	thermoplastic near20 mold\$4 near20 polymer and catalyst near100 (ammonium or phosphane or phosphonium or titanate or titanyl or zirconate or sulfonium) and fiber near4 reinforc\$6 and (filler or impact near modifier or reinforcing near material) and (amide or ester or urethane) and (bond\$4 or link\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 10:39

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**ANTEC 2004** **Plastics: Annual Technical Conference, Volume 3 ...**

Added Value for Long - **Fiber** Reinforced **Thermoplastic** Components by In - Line

... Novel **Polymer Modifier** Improves the Flow Characteristics of TPO Compounds ...

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**ANTEC 2000** **Plastics: The Magical Solution, Volume 2: Materials**

**Fiber-Optic Electric Field Sensors Using Polymer-Dispersed Liquid Crystal Coatings**  
and ... **W23—Thermoplastic Elastomers and Plastic Modification ...**

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#### basics

Rovings are also used to produce a wide variety of **reinforcing materials**, ...

**fiber** and milled/chopped glass **fiber** as **filler** (particularly injection **molded** ...

[www.compositesone.com/basics.html](http://www.compositesone.com/basics.html) - [Similar pages](#)

[PDF] **Biobased Structural Composite Materials** for Housing and ...

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that natural **fiber** composites (bio-based composite **materials**) can be an economical

... **reinforcing** components with petroleum and biobased **thermoplastics** and ...

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[PDF] **Chapter 5. Introduction to Polymer Composite Processing**

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occurs, therefore, injection **molding** for composite **materials** is suitable only

... with a continuous **reinforcing fiber**. Resin-wet rovings are wound with a ...

[home.cwru.edu/emac270/Chapter5.pdf](http://home.cwru.edu/emac270/Chapter5.pdf) - [Similar pages](#)

[PDF] **P:\...\Reinforced Plastic [PFP#932546704]**

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The amount of **fiber** reinforcement varies by resin and **reinforcing fiber** (eg, ...

**Reinforced Thermoplastic Sheet Molding**. **Reinforced thermoplastic** sheet ...

[www.epa.gov/ttn/ecas/regdata/IPs/ Reinforced%20Plastic%20Composites%20Production\\_IP.pdf](http://www.epa.gov/ttn/ecas/regdata/IPs/Reinforced%20Plastic%20Composites%20Production_IP.pdf) - [Similar pages](#)

[PDF] **Economic Impact Analysis of the Final Reinforced Plastics NESHAP ...**

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amount of **catalyst** into a fan-shaped spray of **polymer** or **polymer/filler** mixture

... **Reinforced Thermoplastic Sheet Molding**. **Reinforced thermoplastic** sheet ...

[www.epa.gov/ttn/ecas/regdata/ EIAs/reinforcedplasticseia.pdf](http://www.epa.gov/ttn/ecas/regdata/EIAs/reinforcedplasticseia.pdf) - [Similar pages](#)

#### Composites Basics: Materials-Print Version

**Fiber Reinforced Polymer** (FRP) composites is defined as a **polymer** (plastic) matrix

... Epoxy resins are used with a number of fibrous **reinforcing materials**, ...

[www.mdacomposites.org/mda/psgbridge\\_CB\\_print\\_materials.html](http://www.mdacomposites.org/mda/psgbridge_CB_print_materials.html) - [Similar pages](#)

#### Glossary of Terms

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#### **Composites Basics: Materials 4-Other Matrix Constituents**

Fillers help maintain **fiber**-loading uniformity by carrying **reinforcing fibers**

... Heat stabilizers: are used in **thermoplastic** systems to inhibit **polymer** ...

[www.mdacomposites.org/mda/psgbridge\\_cb\\_materials4\\_other\\_constituents.html](http://www.mdacomposites.org/mda/psgbridge_cb_materials4_other_constituents.html) - [Similar pages](#)

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#### **BCC's Plastics/Polymers Publications**

P-147R Post-Polymerization **Polymer Modification: Materials** and Applications ...

P-221 US **Thermoplastics** Injection **Molding** Business ...

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#### **PLASTICS**

Changing the length of the chains in a **thermoplastic material** will change ...

metal **fiber**, and/or metal flakes as a **filler** in the **material** or coating the ...

[www.sdplastics.com/plastics.html](http://www.sdplastics.com/plastics.html) - [Similar pages](#)

#### **Pultrusion Industry Council - products & process: glossary of ...**

**Fiber Bridging: Reinforcing fiber material** bridging an inside radius of a pultruded

... and for **polymer modification**. Frequently referred to as "**catalyst**". ...

[www.acmanet.org/pic/products/glossary.htm](http://www.acmanet.org/pic/products/glossary.htm) - [Similar pages](#)

#### **Coated or impregnated glass fiber fabric - Patent Storm**

An injection **molded fiber**-impregnated **thermoplastic composite material** ...

**polymer** and an ethylene propylene rubber; a particulate **filler** and, a fabric. ...

[www.patentstorm.us/class/442/180-Coated\\_or\\_impregnated\\_glass\\_fiber\\_fabric.html](http://www.patentstorm.us/class/442/180-Coated_or_impregnated_glass_fiber_fabric.html) - [Similar pages](#)

#### **Thermoplastic Composites - Technology & Business Opportunities**

In general, the wood **filler** increases the stiffness of **thermoplastic** but ...

and the hydrophobic **polymer** and can help recover some of the **impact** strength. ...

[www.tifac.org.in/news/acthermo.htm](http://www.tifac.org.in/news/acthermo.htm) - [Similar pages](#)

#### **[PDF] Natural Fibers in Resin Transfer Molded Composites**

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meets a higher strength **material**. Crack propagation. in the **impact** test is very sensitive to ... tween the matrix and the **reinforcing fiber**. Since the ...

[www.fpl.fs.fed.us/documnts/pdf1997/odell97b.pdf](http://www.fpl.fs.fed.us/documnts/pdf1997/odell97b.pdf) - [Similar pages](#)

#### **[PDF] Composites**

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sheet **molding** composites (SMCs), pultrusions (pulling a **fiber**/resin composition through a ... contains the **polymer** resin in addition to **filler, catalyst**, ...

[www.energy.ca.gov/process/pubs/composites.pdf](http://www.energy.ca.gov/process/pubs/composites.pdf) - [Similar pages](#)

#### **JHM Technologies - JHM Technologies**

The **reinforcing material** placed in position in the **mold**. ... Compound consisting

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**thermoplastic polymer** matrices by greatly reducing or even ... **catalyst** within a polymeric matrix. When the **material** is damaged, ...  
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Lay-up, Placing **reinforcing material** onto the **mold** and applying resin to it; ... and usually with pigment, **filler** and. **catalyst**, before placing in the **mold**. ...  
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... **Impact Modifier**- See "**Filler**." **Impact** Strength- (1) The ability of a ...  
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**Fiber** forming & Elastomeric **Polymer thermoplastic** elastomer, Rubber compounding, ... anti static agent, **impact modifiers** processing aid Lubricant etc. ...  
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**Filler** and short **fiber** characterization. The efficiency of the chemical ...  
the **polymer** matrix. In this section, the effect of the **filler** treatments on the ...

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Patent 5397611: Expandable films and molded products therefrom

It has been shown to save weight and **material** cost in carbon **fiber** composites.

... The **thermoplastic polymer** of the expandable particles soften at a ...

www.freepatentsonline.com/5397611.html - [Similar pages](#)

Patent 4879164: Laminated composite of a rigid polyisocyanurate ...

... asbestos or heat stable synthetic **polymer reinforcing filler** and resin impregnant  
to ... For example, **reinforcing materials** which may be in powder, ...

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concrete, **polymer**—a composite **material** in which the fine and coarse ... **fiber** mat—a  
fibrous **reinforcing material** composed of chopped filaments (for ...

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deal with **polymer**-based functional and structural **materials** at the different ...  
**fiber** and its adhesion to the **polymer** matrix [20]. ...

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The Polyurethane Newsletter - Issue 71

Since the first "modern" **polymer materials** were used over a hundred years ago,

... In the manufacture of large **molded** parts made of glass **fiber**-reinforced ...

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Novelty: A fibrous felt is prepared using a **thermoplastic polymer** powder binder

... Sinterable **thermoplastic molding material** for use as interior lining in ...

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the weight of the **fiber** or **polymer** matrix to the total ... become more brittle  
and the **impact** property of the. **material** is reduced (22). CONCLUSIONS ...

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Saturating **reinforcing material** (glass **fiber**) with resin. The rate or ...  
The **molding** resins and **filler materials** differ little from ...

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**fiber** reinforcement for allyl resins, 139-140. for phenolic resin **filler**, specific  
wear ... **thermoplastics, mold**, extrusion **materials**,. 187(T). ASTM D 3702 ...

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A **thermoplastic material** made by the intimate blending of ... **reinforcing material**  
containing or combined with the full complement of resin before. **molding**. ...

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... and wood fibre filled **thermoplastics/Polymeric modifiers** for engineering ...  
inorganic **fiber** filtration **materials** (including flat filter cloth, ...

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In **polymer** processing, the container holding a supply of **molding material** ...

A **thermoplastic material** composed of polymers of vinyl acetate in the form of ...

[www.plastics.ca/newsroom/default.php?ID=219](http://www.plastics.ca/newsroom/default.php?ID=219) - Aug 21, 2005 - [Similar pages](#)

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ACI; **fiber** mat: a fibrous **reinforcing material** composed of chopped filaments (for  
... (See also concrete, **polymer**.) polyethylene: a **thermoplastic** ...

[www.fixconcrete.org/DesktopDefault.aspx?tabid=50](http://www.fixconcrete.org/DesktopDefault.aspx?tabid=50) - [Similar pages](#)

[United States Patent Application: 0040059042](#)

[0055] The **thermoplastic** composition comprises the **reinforcing filler**, when present,

... [0057] The propylene **polymer material** that forms the backbone or ...

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**fiber**. Some dirt, **filler** and latex is lost. Purifying these face fibers is difficult.  
Therefore ... **polymer** work focused toward engineering **thermoplastics**. ...

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**reinforcing** particles surface. For **polymer** based nanocomposites, ... available  
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A **filler** and extender used in **thermoplastics**. It occurs naturally in the form of  
minerals ... Precise, weighed amount of **material** placed in an open **mold**. ...  
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Blow **molding** can also consist of putting a **thermoplastic. material** in the ...  
like **fiber** matrices, thus forming thin sheets of rubber coated **materials**. ...  
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207 ?????? **polymer catalyst** 208 ?????? polymeric carrier, **polymer** support  
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School of **Polymer**, Textile and **Fiber** Engineering ... A new line of nontoxic, high density, **thermoplastic** composite **materials** has been developed that can ...

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high electrical conductivity carbon **fiber** in a **thermoplastic polymer** matrix. ...

Critical **Materials**. Silicon carbide monofilament **reinforcing** fibers. ...

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For **thermoplastics**, the **mold** is cooled before removal so the part will not lose

... **filler**: a relatively inert **material** used as the discontinuous phase of a ...

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... (ie cross-linked **polymer** chains) rubber and various **reinforcing materials**.

... Use of ground tire rubber as **filler material** in the tread and sidewall of ...

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Asphalt shingle: a shingle manufactured by coating a **reinforcing material** (felt or

... Polyvinyl chloride (PVC): a synthetic **thermoplastic polymer** prepared ...

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**Fiber** Formation in Medium and Ultra-High-Molecular-Weight ... Method for the

Dispersion Assessment of Flame Retardant **Filler/Polymer** Systems Based on the ...

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... high-density polyethylene and an inorganic **reinforcing material**. ...

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Function / **Impact**. Coupling agent. - help disperse the wood **fiber** in the ...

**thermoplastic materials**. It was mixed into the **polymer** at the same time as the ...

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**polymer** segments close to **filler** surfaces show even "frozen" dynamics, ...  
**materials** and especially, on the **modification** of the nanotubes and their ...  
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Homopolymer- See "**Polymer**." Hopper- Feed resevoir into which **molding** powder is  
... **Impact Modifier**- See "**Filler**." **Impact** Strength- (1) The ability of a ...

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**FILLER**: A nonfibrous **material** added to a fabric to increase its weight or to ...  
textiles, a **thermoplastic fiber** used with **reinforcing fiber** to form a ...  
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Foams Under Compressive **Impact** Loading. **Materials** Science Forum, 000-000, ...  
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For **thermoplastics**, the **mold** is cooled before removal so the part will not lose its  
... screw through a die.**filler**: a relatively inert **material** used as the ...  
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Table 3 Key **fiber** properties determined by **polymer** composition ... tion of a  
**reinforcing filler** into a **polymer**. The word **reinforcing** refers to a very ...  
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**catalyst.** The extremely porous nature of the backing **material** permits the ...  
availability of this high Tg, semicrystalline **thermoplastic polymer** made it an ...  
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**thermoplastic** or thermosetting. **Thermoplastic materials.** deform and soften on  
exposure to ... hardest **thermoplastic polymer**, and acrylate monomers yield ...  
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consists of 100 parts by weight of gum, 30 parts **reinforcing filler**, ...  
injection **molding** resins. **Fiber**-reinforced polyolefin formulations show greatly ...  
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polyester:: A synthetic **fiber**. polyester **filler**:: A body repair **material** for ...  
prepreg:: The **reinforcing** or **molding material** already impregnated with a ...  
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joints and the **fiber**-matrix interphase in composite **materials**. Dr. Drzal ...  
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cement-based **materials** do not include **materials** with **polymer modifiers**. ...  
**Molded** or extruded polychloroprene, containing **reinforcing** carbon black, ...  
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